

PCT10

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/018,105**

DATE: 01/09/2002  
 TIME: 13:56:27

Input Set : A:\10182015999.txt  
 Output Set: N:\CRF3\01082002\J018105.raw

4 <110> APPLICANT: ROEMER, Terry  
 5 BUSSEY, Howard  
 6 DAVISON, John  
 8 <120> TITLE OF INVENTION: IDENTIFICATION OF CANDIDA ALBICANS ESSENTIAL FUNGAL  
 9 SPECIFIC GENES AND USE THEREOF IN ANTIFUNGAL DRUG  
 10 DISCOVERY  
 12 <130> FILE REFERENCE: 10182-015  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/018,105  
 C--> 15 <141> CURRENT FILING DATE: 2001-11-05  
 17 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00533  
 18 <151> PRIOR FILING DATE: 2000-05-05  
 20 <150> PRIOR APPLICATION NUMBER: 60/132,878  
 21 <151> PRIOR FILING DATE: 1999-05-05  
 23 <160> NUMBER OF SEQ ID NOS: 6  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 7558  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Candida albicans  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: CDS  
 34 <222> LOCATION: (2770)..(7110)  
 36 <400> SEQUENCE: 1  
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 41 gtgtaccctg tattgatcggt ggaggatgtc gagctccaca actgcacgtg ggagttccg 180  
 43 ttcacgctat cgcaattcaa ttacaactcc aacatcaggc gacttgtgtt gtcgtatgct 240  
 45 gaaggcaacg cgtttgcgggt gtctgaacgg tacagagagt ttttgcataa tggaaacgga 300  
 47 gaagactttt caagtttggaa ggagcttaacg gtcactgtgg cgagaggag tctcaacagc 360  
 49 agcgtatgtt cacgggtcat gaacactgac aacttcccga gactaagagc attgcgggtt 420  
 51 cttgcaaggg aaggcgcata caacctatcg cattggttt gaaagttgcc gacaaaacag 480  
 53 tacgttgcgg gtactagaca tgcaggtgaa ttacaagct cgtgaccggg agagagcatt 540  
 55 gaaggaggcc aatagatact ttccattcct tgatgtgaag atacatagac cataaaagca 600  
 57 caaggctgcg aaatatatac gcgtatagac tctactaata aacatccaa ccagagtcaa 660  
 59 aaaaaaaaaat acaacacaaa ccagaaaaaa aacaaacgaa ccacttacaa gaccatctc 720  
 61 taccacaaca ccaatgtact gggtgctact cctttcgtg tgcgtatgca tggccaacac 780  
 63 ggagacatgc ttggtacggg tgcccgagta ctacaatatt gtaccgcacc cgtcacccat 840  
 65 atccagggat gccaggttca gtcgcgagct ccacgtctc aacaccaccc acacagtact 900  
 67 actagactac cccatggat ctatcgacca ccaggatatg tccaaacataa tcacagtac 960  
 69 atacgatacc gttgcgcaac cacgatcaac actactatgt cgctgtaaaca actacggaga 1020  
 71 caatacgttt acgaacggcg acatgctcaa cattaagcta tgctggccgg ccaccatgcc 1080  
 73 gtacgacttt agcattgacc atgtgtatgc acacagcaac gagttgggtt agagtggtt 1140  
 75 ggatgagttt gatttgtatg tggcggtcac ctacgatgtt catgccttta gttatgacaa 1200  
 77 tgggagggttt ttgcaagaag aaacggcatt gtcctccaa ttgtacgtga acaaattgcc 1260  
 79 cagtagattc ttaccattc cattggagtt gtacgaaaca atcgtgtatt tagtagatat 1320  
 81 cacaatattc attgtctgga acatcttgc atatgggtt aagggtgtat tagaagccgt 1380  
 83 gggcagtag tggtgcgttta tatttaagg aaaataaaca aatgattta tcaagtcgt 1440

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87	ttaagggtt	gcttttagc	tggcaaagtt	tagatccaa	ttcggtgggg	tcgtgttcac	1560
89	taccaatact	gcagtaaaaa	cgagtttgac	tctttgtata	atattttagct	cattcgcaga	1620
91	tcaaataatt	cgttctttc	taggtgccac	actagcaaaa	ggttatgggt	aaagaaggac	1680
93	acggtgtcatt	tcctgttcct	aaagccaatg	acataccgcc	tcctgcaaat	ataaaagaaga	1740
95	tgggggcott	gaaacgtttt	tcatatgaag	cttgcgaa	gtcttgctc	tatgtgcag	1800
97	caagattagt	tgcaccaata	atacacgagc	agaaggtaaa	agttggaaaaa	ttatatgaaa	1860
99	tgtatcctga	taaggcgaa	ctatgggccc	taaatgtcaa	tcacggacaa	aagatataacc	1920
101	taagggttaag	agaacatcac	aatgataaaac	tgttctccc	catgggtgat	atagttaggaa	1980
103	ccttacttca	tgaattaaca	cacaatttgt	atagtgccta	cgatagtaag	ttctacaagt	2040
105	tttggacaa	actaaagtcg	agatacgacg	acatacattt	taggggagcc	aaaacaaaat	2100
107	atttatgcga	ggaaaaacaag	gttggtagag	gtgttatttt	atccggaaat	tttagtactg	2160
109	tcaagagagca	aaggctcaag	gaattaagca	aacccaaagtt	tgcgaatgaa	agcaaagttt	2220
111	taggactgaa	ttcaaaaatt	aataaaccta	tcgggtggctc	gccaagggtat	cttagacagg	2280
113	caattctaga	ggcgcagag	cgtcggttga	gagattcaaa	atggtgtcat	agtgaaaatg	2340
115	cagaaaccga	aagtgttccc	aaagaggacg	agtacgacac	aactcagggt	gagcttatcg	2400
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123	attaaagttaa	atataaaggc	aaatataattt	ccaatgtaat	actcttttaa	cagtgttGTT	2640
125	ctcgtgcaag	gattaagcac	cgaaaaaaaaa	tatgtggatg	cgttggattt	agttttactc	2700
127	tttgctttt	ctgaaaagaa	acattaacgt	gttctacttag	tttgcacac	tacgacacaa	2760
129	gtccttgaa	atg tca	ttt gca	agg tat atc	tac tac acc	att gcg gtt	2811
130	Met Ser Phe Ala Arg Tyr Ile Tyr Tyr Thr Ile Ala Val Ala						
131	1	5	10				
133	gtt tta aat ttt	gtc aaa	gtt act	gaa aat	aac aat	ttt aaa	ctt 2859
134	Val Leu Leu Asn Phe	Val Lys Ala	Thr Glu Asn Asn	Asn Phe Lys	Leu		
135	15	20	25	30			
137	gaa gtt gaa gcg	tca tgg	agc aat att	gat ttc	ctt cct	agc ttt	ata 2907
138	Glu Val Glu Ala	Ser Trp Ser Asn	Ile Asp Phe	Leu Pro Ser	Phe Ile		
139	35	40	45				
141	gag gcc atc	gtt ggc	tcc aat gac	tct ttg	tac gaa	cag aca	att gaa 2955
142	Glu Ala Ile Val Gly	Phe Asn Asp Ser	Leu Tyr Glu Gln	Thr Ile Glu			
143	50	55	60				
145	aca att ttt	ggt tta	gga gac	act gaa	gtg gaa	tta gaa	gat gat gct 3003
146	Thr Ile Phe Gly	Leu Gly Asp	Thr Glu Val	Glu Leu Glu Asp	Asp Ala		
147	65	70	75				
149	tca gat caa	gaa ata	tat tct	acc gtg	atc aac	tca tta	ggg tta aca 3051
150	Ser Asp Gln Glu	Ile Tyr Ser	Thr Val Ile	Asn Ser Leu	Gly Leu	Thr	
151	80	85	90				
153	gat caa	gat ttg	gat ttt	att aat	ttt gat	tta acc	aaa aac cat 3099
154	Asp Gln Asp	Leu Asp Phe	Ile Asn Phe	Asp Leu	Thr Asn Lys	Lys His	
155	95	100	105	110			
157	aca cca	aga atc	gca gcc	cat tac	gat cac	tat tct	gat gtt cta act 3147
158	Thr Pro Arg Ile	Ala Ala His	Tyr Asp His	Tyr Ser Asp	Val Leu	Thr	
159	115	120	125				
161	aag ttt	ggc gat	cga ctc	aaa agt	gaa tgt	gca aaa	gac tct ttt ggg 3195
162	Lys Phe Gly Asp	Arg Leu Lys	Ser Glu Cys	Ala Lys	Asp Ser	Phe Gly	
163	130	135	140				

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166	Asn Ala Val Glu Thr Lys Asn Gly Gln Ile Gln Thr Trp Leu Leu Tyr	
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169	aac gat aag ata tat tgt tcg gct aat gat ttg ttt gca tta cga act	3291
170	Asn Asp Lys Ile Tyr Cys Ser Ala Asn Asp Leu Phe Ala Leu Arg Thr	
171	160 165 170	
173	gat ttg agt tct cat tct aca ctt tta ttg gat agg att att gga aaa	3339
174	Asp Leu Ser Ser His Ser Thr Leu Leu Phe Asp Arg Ile Ile Gly Lys	
175	175 180 185 190	
177	tca aaa gat gca cct ttg gtg att tta tat gga agc ccg act gag gaa	3387
178	Ser Lys Asp Ala Pro Leu Val Ile Leu Tyr Gly Ser Pro Thr Glu Glu	
179	195 200 205	
181	ctg act aaa gat ttt ctt aaa ata ttg tat cca gat gca aag gct gga	3435
182	Leu Thr Lys Asp Phe Leu Lys Ile Leu Tyr Pro Asp Ala Lys Ala Gly	
183	210 215 220	
185	aaa tta aag ttt gta tgg agg tac att cca ctg gga atc aaa aaa ctg	3483
186	Lys Leu Lys Phe Val Trp Arg Tyr Ile Pro Leu Gly Ile Lys Lys Leu	
187	225 230 235	
189	gac tca att tct gga tac ggt gta tca ttg aaa atg gaa aag tat gat	3531
190	Asp Ser Ile Ser Gly Tyr Gly Val Ser Leu Lys Met Glu Lys Tyr Asp	
191	240 245 250	
193	tat tct ggt gca gaa gga aat cca aag tat gat ttg agt cga gat ttc	3579
194	Tyr Ser Gly Ala Glu Gly Asn Pro Lys Tyr Asp Leu Ser Arg Asp Phe	
195	255 260 265 270	
197	acc aga att aat gac tcg caa gag ttg gtc ctg gtc aat gaa aaa cat	3627
198	Thr Arg Ile Asn Asp Ser Gln Glu Leu Val Leu Val Asn Glu Lys His	
199	275 280 285	
201	tcg tat gaa ctt ggt gtt aaa ttg act tca ttc ata tta tcc aat cgt	3675
202	Ser Tyr Glu Leu Gly Val Lys Leu Thr Ser Phe Ile Leu Ser Asn Arg	
203	290 295 300	
205	tac aag agt act aaa tat gac ctt tta gat acg att tta acc aac ttt	3723
206	Tyr Lys Ser Thr Lys Tyr Asp Leu Leu Asp Thr Ile Leu Thr Asn Phe	
207	305 310 315	
209	ccc aag ttt att cct tac att gca cga tta cca aaa tta cta aat cat	3771
210	Pro Lys Phe Ile Pro Tyr Ile Ala Arg Leu Pro Lys Leu Leu Asn His	
211	320 325 330	
213	gaa aaa gtt aaa tcc aaa gtg ctt gga aat gaa gat ata ggg cta tct	3819
214	Glu Lys Val Lys Ser Lys Val Leu Gly Asn Glu Asp Ile Gly Leu Ser	
215	335 340 345 350	
217	caa gac tcc tac gga ata tat atc aac ggt tcc cca ata aat cca cta	3867
218	Gln Asp Ser Tyr Gly Ile Tyr Ile Asn Gly Ser Pro Ile Asn Pro Leu	
219	355 360 365	
221	gag tta gat att tac aat cta ggt acc agg ata aag gag gaa tta cag	3915
222	Glu Leu Asp Ile Tyr Asn Leu Gly Thr Arg Ile Lys Glu Glu Leu Gln	
223	370 375 380	
225	act gtg aaa gat tta gtg aaa ctt gga ttt gat acc gta caa gca aag	3963
226	Thr Val Lys Asp Leu Val Lys Leu Gly Phe Asp Thr Val Gln Ala Lys	
227	385 390 395	
229	ctc ttg ata gca aaa ttt gct tta ctt tca gct gtt aaa caa aca caa	4011

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230	Leu	Leu	Ile	Ala	Lys	Phe	Ala	Leu	Leu	Ser	Ala	Val	Lys	Gln	Thr	Gln		
231	400					405						410						
233	ttt	cga	aat	ggg	aat	aca	tta	atg	ggt	aac	aat	gaa	aat	aga	ttt	aaa	4059	
234	Phe	Arg	Asn	Gly	Asn	Thr	Leu	Met	Gly	Asn	Asn	Glu	Asn	Arg	Phe	Lys		
235	415						420					425				430		
237	gtg	tat	gaa	aat	gaa	ttt	aag	aag	ggt	agt	tca	gaa	aag	ggt	ggg	gtc	4107	
238	Val	Tyr	Glu	Asn	Glu	Phe	Lys	Lys	Gly	Ser	Ser	Glu	Lys	Gly	Gly	Val		
239							435					440				445		
241	ttg	ttt	tcc	aat	aac	att	gaa	tta	gac	aac	aca	ttc	aag	gag	tac	acc	4155	
242	Leu	Phe	Phe	Asn	Asn	Ile	Glu	Leu	Asp	Asn	Thr	Phe	Lys	Glu	Tyr	Thr		
243							450					455				460		
245	act	gat	cgt	gag	gag	gca	tat	tta	gga	ggt	tct	cat	aaa	ctt	aag		4203	
246	Thr	Asp	Arg	Glu	Glu	Ala	Tyr	Leu	Gly	Val	Gly	Ser	His	Lys	Leu	Lys		
247							465					470				475		
249	cca	aat	caa	att	ccg	tta	ttg	aaa	gag	aac	atc	cat	gat	tta	att	ttc	4251	
250	Pro	Asn	Gln	Ile	Pro	Leu	Leu	Lys	Glu	Asn	Ile	His	Asp	Leu	Ile	Phe		
251							480					485				490		
253	gca	tta	aat	ttt	ggg	aac	aaa	aac	caa	ttg	cg	gtg	ttt	ttc	act	tta	4299	
254	Ala	Leu	Asn	Phe	Gly	Asn	Lys	Asn	Gln	Leu	Arg	Val	Phe	Phe	Thr	Leu		
255							495					500				510		
257	tct	aag	gtg	att	ttg	gac	tcc	ggt	ata	cct	caa	caa	gtt	gga	gtt	ttg	4347	
258	Ser	Lys	Val	Ile	Leu	Asp	Ser	Gly	Ile	Pro	Gln	Gln	Val	Gly	Val	Leu		
259							515					520				525		
261	ccc	gtt	ata	gga	gat	gac	cca	atg	gat	ctg	tta	ctc	gct	gag	aaa	ttt	4395	
262	Pro	Val	Ile	Gly	Asp	Asp	Pro	Met	Asp	Leu	Leu	Leu	Ala	Glu	Lys	Phe		
263							530					535				540		
265	tat	tgg	att	gtc	gag	aaa	tca	agc	aca	caa	gag	gca	tta	gca	ata	ttg	4443	
266	Tyr	Trp	Ile	Ala	Glu	Lys	Ser	Ser	Thr	Gln	Glu	Ala	Leu	Ala	Ile	Leu		
267							545					550				555		
269	tat	aaa	tat	ttt	gaa	tca	aac	agt	cca	gat	gaa	gtt	gt	gac	tta	tta		
270	Tyr	Lys	Tyr	Phe	Glu	Ser	Ser	Pro	Asp	Glu	Val	Asp	Asp	Leu	Leu			
271							560					565				570		
273	gat	aaa	gtg	gaa	gt	ccc	gaa	gat	tat	aaa	gtg	gat	tat	aat	cat	gtg	4539	
274	Asp	Lys	Val	Glu	Val	Pro	Glu	Asp	Tyr	Lys	Val	Asp	Tyr	Asn	His	Val		
275							575					580				590		
277	tta	aac	aag	ttt	tct	ata	tca	act	gct	tcg	gtc	att	ttc	aat	ggg	gtt	4587	
278	Leu	Asn	Lys	Phe	Ser	Ile	Ser	Thr	Ala	Ser	Val	Ile	Phe	Asn	Gly	Val		
279							595					600				605		
281	att	tac	gat	tta	aga	gca	cca	aac	tgg	cag	att	gca	atg	agt	aaa	caa	4635	
282	Ile	Tyr	Asp	Leu	Arg	Ala	Pro	Asn	Trp	Gln	Ile	Ala	Met	Ser	Lys	Gln		
283							610					615				620		
285	ata	tcc	cag	gac	att	tca	ctt	att	aaa	act	ttc	ttg	aga	cag	gga	cca	4683	
286	Ile	Ile	Ser	Gln	Asp	Ile	Ser	Leu	Ile	Lys	Thr	Phe	Leu	Arg	Gln	Gly	Pro	
287							625					630				635		
289	ata	gag	ggt	aga	ttg	aaa	gat	gtt	ctt	tac	tct	aat	gca	aaa	tca	gaa	4731	
290	Ile	Glu	Gly	Arg	Leu	Lys	Asp	Val	Leu	Tyr	Ser	Asn	Ala	Lys	Ser	Glu		
291							640					645				650		
293	ata	cgc	aat	tta	cgt	ata	att	cca	tta	gaa	cct	agt	gac	att	att	tac	aag	4779
294	Arg	Asn	Leu	Arg	Ile	Ile	Pro	Leu	Glu	Pro	Ser	Asp	Ile	Ile	Tyr	Lys		

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295	655	660	665	670	
297	aaa atc gac aag gaa tta ata aac aat tca att gca ttc aag aag cta				4827
298	Lys Ile Asp Lys Glu Leu Ile Asn Asn Ser Ile Ala Phe Lys Lys Leu				
299	675	680		685	
301	gat aaa gcg cag ggt gtg tct gga aca ttt tgg cta gtg tcg gat ttt				4875
302	Asp Lys Ala Gln Gly Val Ser Gly Thr Phe Trp Leu Val Ser Asp Phe				
303	690	695	700		
305	acc aag tca gca ata att act caa ttg ata gat ttg tta ttg ctt ctc				4923
306	Thr Lys Ser Ala Ile Ile Thr Gln Leu Ile Asp Leu Leu Leu Leu				
307	705	710	715		
309	aaa aag aaa gca att cag ata aga att att aat act ggg gat aca gat				4971
310	Lys Lys Ala Ile Gln Ile Arg Ile Ile Asn Thr Gly Asp Thr Asp				
311	720	725	730		
313	gtt ttt gga aaa ttg aaa aca aag ttt aaa tta acc gcc tta aca aat				5019
314	Val Phe Gly Lys Leu Lys Thr Lys Phe Lys Leu Thr Ala Leu Thr Asn				
315	735	740	745	750	
317	gga caa att gat gaa att att gag att ttg aaa aaa tcc aac gct tca				5067
318	Gly Gln Ile Asp Glu Ile Ile Glu Ile Leu Lys Lys Ser Asn Ala Ser				
319	755	760	765		
321	agt gca aat aat gat gaa ttg aaa aaa atg ctt gag act aag caa tta				5115
322	Ser Ala Asn Asn Asp Glu Leu Lys Lys Met Leu Glu Thr Lys Gln Leu				
323	770	775	780		
325	cct gct cat cac tct ttt ttg cta ttc aac tct aga tat ttt aga ttg				5163
326	Pro Ala His His Ser Phe Leu Leu Phe Asn Ser Arg Tyr Phe Arg Leu				
327	785	790	795		
329	gat gga aat ttt gga tac gag gaa ttg gat caa att ata gag ttt gaa				5211
330	Asp Gly Asn Phe Gly Tyr Glu Glu Leu Asp Gln Ile Ile Glu Phe Glu				
331	800	805	810		
333	gta tct caa aga ttg aac tta atc ccg gac atc atg gag gca tat ccg				5259
334	Val Ser Gln Arg Leu Asn Leu Ile Pro Asp Ile Met Glu Ala Tyr Pro				
335	815	820	825	830	
337	gat gag ttt agg tcg aag aag gta agt gat ttt aat ctg gtt ttg tct				5307
338	Asp Glu Phe Arg Ser Lys Lys Val Ser Asp Phe Asn Leu Val Leu Ser				
339	835	840	845		
341	gga tta gac aat atg gac tgg ttt gat ttg gtg act tcc ata gtg aca				5355
342	Gly Leu Asp Asn Met Asp Trp Phe Asp Leu Val Thr Ser Ile Val Thr				
343	850	855	860		
345	aaa tca ttc cat gtc gac gaa aaa agg ttt att gtt gat gtt aac agg				5403
346	Lys Ser Phe His Val Asp Glu Lys Arg Phe Ile Val Asp Val Asn Arg				
347	865	870	875		
349	ttt gat ttt agc tca ttg gat ttt tca aac tcg att gat gta acg act				5451
350	Phe Asp Phe Ser Ser Leu Asp Phe Ser Asn Ser Ile Asp Val Thr Thr				
351	880	885	890		
353	tat gaa gaa aat agt cca gtt gat gta tta ata att ttg aac cct atg				5499
354	Tyr Glu Glu Asn Ser Pro Val Asp Val Leu Ile Ile Leu Asn Pro Met				
355	895	900	905	910	
357	gat gaa tat tct caa aaa ttg ata agc ctt gtt aat agc att aca gat				5547
358	Asp Glu Tyr Ser Gln Lys Leu Ile Ser Leu Val Asn Ser Ile Thr Asp				
359	915	920	925		

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Application Number  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5